



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-015
 Client Sample ID: T2/BC-10-(0-6")

Report Date: 11/01/07
 Collection Date: 09/21/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.7	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	0.74	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	54.8	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	1.1	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	6.66	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	3.02	meq/l		0.05		SW6010B	10/15/07 12:22 / skd
Magnesium, sat. paste	2.17	meq/l		0.08		SW6010B	10/15/07 12:22 / skd
Sodium, sat. paste	1.84	meq/l		0.04		SW6010B	10/15/07 12:22 / skd
Sulfate, sat. paste	1.94	meq/L		0.02		SW6010B	10/15/07 12:22 / skd
Chloride, sat. paste	0.50	meq/L		0.03		SW6010B	10/15/07 12:22 / skd
PHYSICAL CHARACTERISTICS							
Sand	18	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	49	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	33	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	SiCL	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	ND	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Potassium, NH4OAc Extractable	198	meq/100g		1		ASA13-3	10/12/07 16:10 / skd
Organic Matter	2.89	%		0.02		ASA29-3	09/28/07 12:42 / jjm
Cation Exchange Capacity	34.2	meq/100g		0.09		SW6010B	10/18/07 07:57 / skd
Lime as CaCO3	6.0	%		0.1		USDA23c	10/04/07 00:00 / jjm
Phosphorus	12	mg/kg		0.1		ASA24-5	10/02/07 13:44 / sld
Nitrate as N, KCL Extract	18	mg/kg	D	2.5		ASA38-3	10/01/07 12:33 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.70	meq/100g		0.04		SW6010B	10/12/07 16:10 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	1.8	%		0.1		USDA20a	10/05/07 08:36 / jjm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.005		E270.3	10/20/07 11:19 / skd
METALS, DTPA EXTRACTABLE							
Zinc	0.45	mg/kg		0.02		SW6010B	10/10/07 12:17 / skd

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



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Client: HydroSolutions Inc
Project: TRIP - Tier II (formerly referred to as AMPP)
Lab ID: H07090283-015
Client Sample ID: T2/BC-10-(0-6")

Report Date: 11/01/07
Collection Date: 09/21/07 17:00
DateReceived: 09/25/07
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS, CACL2 EXTRACTABLE							
Barium	0.92	mg/kg		0.20		SW6010B	10/10/07 10:56 / skd
Boron	0.31	mg/kg		0.20		SW6010B	10/10/07 10:56 / skd

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-016
 Client Sample ID: T2/BC-10-(6-12")

Report Date: 11/01/07
 Collection Date: 09/21/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.9	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	0.48	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	52.4	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	1.8	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	2.80	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	1.57	meq/l		0.05		SW6010B	10/15/07 12:30 / skd
Magnesium, sat. paste	1.18	meq/l		0.08		SW6010B	10/15/07 12:30 / skd
Sodium, sat. paste	2.05	meq/l		0.04		SW6010B	10/15/07 12:30 / skd
Sulfate, sat. paste	1.75	meq/L		0.02		SW6010B	10/15/07 12:30 / skd
Chloride, sat. paste	1.06	meq/L		0.03		SW6010B	10/15/07 12:30 / skd
PHYSICAL CHARACTERISTICS							
Sand	16	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	50	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	34	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	SiCL	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	28.9	meq/100g		0.09		SW6010B	10/18/07 08:10 / skd
Lime as CaCO3	6.2	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	6.4	mg/kg		1.0		ASA38-3	10/01/07 12:11 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.87	meq/100g		0.04		SW6010B	10/12/07 16:18 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.8	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	2.6	%		0.1		USDA20a	10/05/07 08:36 / jjm

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-017
 Client Sample ID: T2/BC-10-(12-24")

Report Date: 11/01/07
 Collection Date: 09/21/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	0.90	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	53.4	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	2.7	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	3.20	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	2.61	meq/l		0.05		SW6010B	10/15/07 12:33 / skd
Magnesium, sat. paste	1.97	meq/l		0.08		SW6010B	10/15/07 12:33 / skd
Sodium, sat. paste	4.12	meq/l		0.04		SW6010B	10/15/07 12:33 / skd
Sulfate, sat. paste	5.66	meq/L		0.02		SW6010B	10/15/07 12:33 / skd
Chloride, sat. paste	0.50	meq/L		0.03		SW6010B	10/15/07 12:33 / skd
PHYSICAL CHARACTERISTICS							
Sand	10	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	50	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	40	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	SiC	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	29.8	meq/100g		0.09		SW6010B	10/18/07 08:12 / skd
Lime as CaCO3	6.3	%		0.1		USDA23c	10/04/07 00:00 / jjm
Nitrate as N, KCL Extract	3.6	mg/kg		1.0		ASA38-3	10/01/07 12:13 / sld
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	1.39	meq/100g		0.04		SW6010B	10/12/07 16:21 / skd
EXCHANGEABLES							
Exchangeable Sodium	1.2	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	3.9	%		0.1		USDA20a	10/05/07 08:36 / jjm

Report Definitions: RL - Analyte reporting limit.
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MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-018
 Client Sample ID: T2/BC-10-(24-36")

Report Date: 11/01/07
 Collection Date: 09/21/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.9	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	4.03	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	62.8	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	6.5	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	1.86	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	14.8	meq/l		0.05		SW6010B	10/15/07 12:36 / skd
Magnesium, sat. paste	11.9	meq/l		0.08		SW6010B	10/15/07 12:36 / skd
Sodium, sat. paste	23.6	meq/l		0.04		SW6010B	10/15/07 12:36 / skd
Chloride, sat. paste	0.94	meq/L		0.03		SW6010B	10/15/07 12:36 / skd
PHYSICAL CHARACTERISTICS							
Sand	9	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	69	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	22	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	SiL	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	29.9	meq/100g		0.09		SW6010B	10/18/07 08:15 / skd
Lime as CaCO3	5.7	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	4.22	meq/100g		0.04		SW6010B	10/12/07 16:23 / skd
EXCHANGEABLES							
Exchangeable Sodium	2.7	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	9.1	%		0.1		USDA20a	10/05/07 08:36 / jjm

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-019
 Client Sample ID: T2/BC-10-(36-60")

Report Date: 11/01/07
 Collection Date: 09/21/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.8	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	4.43	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	61.5	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	5.2	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	2.00	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	20.8	meq/l		0.05		SW6010B	10/15/07 12:38 / skd
Magnesium, sat. paste	14.3	meq/l		0.08		SW6010B	10/15/07 12:38 / skd
Sodium, sat. paste	21.7	meq/l		0.04		SW6010B	10/15/07 12:38 / skd
Chloride, sat. paste	0.47	meq/L		0.03		SW6010B	10/15/07 12:38 / skd
PHYSICAL CHARACTERISTICS							
Sand	5	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	52	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	43	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	SiC	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Fluoride	ND	mg/kg		1.0		A4500-F C	10/28/07 00:00 / sld
Cation Exchange Capacity	25.2	meq/100g		0.09		SW6010B	10/18/07 08:18 / skd
Lime as CaCO3	6.2	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	3.42	meq/100g		0.04		SW6010B	10/12/07 16:31 / skd
EXCHANGEABLES							
Exchangeable Sodium	2.1	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	8.3	%		0.1		USDA20a	10/05/07 08:36 / jjm
METALS, WATER SOLUBLE							
Selenium	ND	mg/kg		0.005		E270.3	10/20/07 11:24 / skd
METALS, CaCl2 EXTRACTABLE							
Barium	ND	mg/kg		0.20		SW6010B	10/10/07 11:04 / skd
Boron	0.66	mg/kg		0.20		SW6010B	10/10/07 11:04 / skd

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-020
 Client Sample ID: T2/BC-10-(60-96")

Report Date: 11/01/07
 Collection Date: 09/21/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	8.0	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	6.07	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	59.7	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	12	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	1.60	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	18.5	meq/l		0.05		SW6010B	10/15/07 12:46 / skd
Magnesium, sat. paste	12.2	meq/l		0.08		SW6010B	10/15/07 12:46 / skd
Sodium, sat. paste	46.2	meq/l		0.04		SW6010B	10/15/07 12:46 / skd
Chloride, sat. paste	0.79	meq/L		0.03		SW6010B	10/15/07 12:46 / skd
PHYSICAL CHARACTERISTICS							
Sand	13	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	52	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	35	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	SiCL	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	23.6	meq/100g		0.09		SW6010B	10/18/07 08:20 / skd
Lime as CaCO3	6.5	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	5.68	meq/100g		0.04		SW6010B	10/12/07 16:33 / skd
EXCHANGEABLES							
Exchangeable Sodium	2.9	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	12	%		0.1		USDA20a	10/05/07 08:36 / jjm

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: HydroSolutions Inc
 Project: TRIP - Tier II (formerly referred to as AMPP)
 Lab ID: H07090283-021
 Client Sample ID: T2/BC-10-(0-2")

Report Date: 11/01/07
 Collection Date: 09/21/07 17:00
 Date Received: 09/25/07
 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE							
pH, sat. paste	7.5	s.u.		0.1		ASAM10-3.2	10/05/07 08:36 / jjm
Conductivity, sat. paste	0.97	mmhos/cm		0.01		ASAM10-3	10/05/07 08:36 / jjm
Saturation	59.5	%		0.1		USDA27a	10/05/07 08:36 / jjm
Sodium Adsorption Ratio (SAR)	1.1	unitless		0.01		Calculation	10/05/07 08:36 / jjm
Bicarbonate, sat. paste	5.59	meq/L		0.02		ASA10-3	10/15/07 06:44 / jjm
SATURATED PASTE							
Calcium, sat. paste	4.07	meq/l		0.05		SW6010B	10/15/07 12:52 / skd
Magnesium, sat. paste	2.98	meq/l		0.08		SW6010B	10/15/07 12:52 / skd
Sodium, sat. paste	2.07	meq/l		0.04		SW6010B	10/15/07 12:52 / skd
Chloride, sat. paste	1.06	meq/L		0.03		SW6010B	10/15/07 12:52 / skd
PHYSICAL CHARACTERISTICS							
Sand	17	%		1		ASA15-5	10/05/07 08:36 / jjm
Silt	51	%		1		ASA15-5	10/05/07 08:36 / jjm
Clay	32	%		1		ASA15-5	10/05/07 08:36 / jjm
Texture	SiCL	unitless				ASA15-5	10/05/07 08:36 / jjm
CHEMICAL CHARACTERISTICS							
Cation Exchange Capacity	33.3	meq/100g		0.09		SW6010B	10/18/07 08:25 / skd
Lime as CaCO3	6.4	%		0.1		USDA23c	10/04/07 00:00 / jjm
METALS, AMMONIUM ACETATE EXTRACTABLE							
Sodium, Extractable	0.71	meq/100g		0.04		SW6010B	10/12/07 16:39 / skd
EXCHANGEABLES							
Exchangeable Sodium	0.6	meq/100g		0.1		Calculation	10/05/07 08:36 / jjm
Exchangeable Sodium Percentage	1.8	%		0.1		USDA20a	10/05/07 08:36 / jjm

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.